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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/676,100	10/02/2003	Hyoung-Jo Jeon	1572.1153	8392
21171 7590 03/06/2007 STAAS & HALSEY LLP SUITE 700 1201 NEW YORK AVENUE, N.W. WASHINGTON, DC 20005			EXAMINER SMITH, JEFFREY S	
			ART UNIT	PAPER NUMBER
			2624	
SHORTENED STATUTORY PERIOD OF RESPONSE		MAIL DATE	DELIVERY MODE	
3 MONTHS		03/06/2007	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

Office Action Summary	Application No. 10/676,100	Applicant(s) JEON ET AL.	
	Examiner Jeffrey S. Smith	Art Unit 2624	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☐ Responsive to communication(s) filed on ____.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-19,21 and 22 is/are pending in the application.
- 4a) Of the above claim(s) ____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) ____ is/are allowed.
- 6) ☒ Claim(s) 1-19,21 and 22 is/are rejected.
- 7) ☐ Claim(s) ____ is/are objected to.
- 8) ☐ Claim(s) ____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☒ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on ____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some * c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. ____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO/SB/08)
Paper No(s)/Mail Date ____.
- 4) ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date ____.
- 5) ☐ Notice of Informal Patent Application
- 6) ☐ Other: ____.

DETAILED ACTION

Specification

The title of the invention is not descriptive. A new title is required that is clearly indicative of the invention to which the claims are directed.

Claim Objections

Claims 17-19 and 21-22 are objected to because of the following informalities: In claim 17, "generated" should be "generate." Appropriate correction is required.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1-19, 21 and 22 are rejected under 35 U.S.C. 102(b) as being anticipated by Japanese application no. 10-257084, submitted in the IDS, which was published March 31, 2000 by Atsushi et al. ("Atsushi").

For claim 1, Atsushi discloses an image displaying apparatus 16 which displays an image, an image taking apparatus (2, 6) to take the image displayed in the image displaying apparatus, an optical characteristic changing apparatus 4 provided between the image taking apparatus and the image displaying apparatus, which changes optical

characteristics of the displayed image; a lightpath changing apparatus (10) which changes a lightpath of the displayed image, and an image processor 14 which receives a plurality of images (VA, VB') having respective changed lightpaths from the image taking apparatus and generates a processed image with a moire' removed by correcting or superposing the size and brightness of the plurality of images (see figure 1, see also figure 16).

For claim 2, Atsushi discloses a position controller 15 which controls the lightpath changing apparatus to change the lightpaths of the respective images.

For claim 3, the position controller moves the displaying apparatus, the image taking apparatus takes an image of the displayed image at each predetermined position, and the image processor generates the processed image with the moire' removed by superposing the plurality of the images taken at the plurality of predetermined positions.

For claim 4, the position controller moves the lens ("optical characteristic changing apparatus"), the camera ("image taking apparatus"), and the lightpath changing apparatus relative to the image as shown in Figure 15.

For claims 5 and 6, Atsushi has one of a mirror and a prism (element 10 of figure 1).

For claims 7-10, the moire' is removed by correcting a shape or a brightness of each image (see paragraph 94).

For claim 11, taking respective images, correcting respective images, and generating a processed image is performed by the device of figure 1 and also by the device of figures 16 and 17.

For claim 12 changing a lightpath is shown in Figure 15.

For claim 13, moving the image displaying apparatus is shown in Figure 1.

For claims 14-16, correcting a shape or brightness is discussed in paragraph 94.

For claim 17, taking a first image, taking a second image, and superposing the first and second images is shown in Figure 1.

For claim 18, adjusting an aspect ratio is performed by image processor 14 as shown in Figure 1.

For claim 19, adjusting brightness is performed by image processor 14.

For claims 21-22, taking an additional image is performed by the devices shown in Figures 1, 16, and 17. Repeating these tasks and superposing is also performed by each of these devices.

Response to Arguments

Applicant's arguments filed February 22, 2007 have been fully considered but they are not persuasive.

With respect to claim 1, applicant states that "Atsushi only discusses arithmetic processing section 13 which process gradation value of the video signals," yet the rejection to claim 1 does not mention the arithmetic processing section 13.

The rejection to claim 1 cites the image processor 14 that superposes multiple images. Atsushi discusses the image processor and its functions in paragraphs 6, 14, 23, 96 and 111, for example.

With respect to the amended “size and brightness” element of claim 1, applicant states that “the image processor of claim 1 processes the size and brightness of the plurality of images.”

Every image has a size and brightness. Therefore, the image processor 14 processes the size and brightness of the plurality of images.

With respect to claim 11, the image processor 14 “generates a processed image in which a moiré is reduced by superposing the size and brightness of the corrected images on one another.”

With respect to claim 17, Atsushi discloses “taking an additional image from an additional position and superposing the additional image with the first and second images to generated the processed image” in paragraphs 96, 110 and 111, for example.

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

U.S. Patent Number 7,095,883 issued to Safaee-Rad removes moiré artifacts by combining multiple images.

U.S. Patent Number 6,831,995 issued to Asano et al. reduces moirés by combining images as discussed in the abstract.

U.S. Patent Number 6,215,895 issued to Sali et al. reduces moirés by combining images as shown in figure 4.

U.S. Patent Number 5,764,209 issued to Hawthorne et al. reduces moirés by combining images as discussed in column 7.

U.S. Patent Number 5,307,152 issued to Boehnlein et al. combines three images to reduce moiré patterns as shown in the front page.

U.S. Patent Number 6,362,802 issued to Fujiwara combines image data from multiple images to reduce moirés as discussed in the abstract.

U.S. Patent Number 6,867,871 issued to Ueki combines multiple images to remove moiré effects during inspection as discussed in the abstract.

U.S. Patent Number 5,698,069 issued to Aiyer et al. discloses multiple images that are superposed to reduce moiré effects during inspection.

Japanese application publication number 11-101712 by Takenaka discloses three images that are combined to reduce moiré effects as shown in figures 1, 2 and 3.

Japanese application number 07-147649 shows multiple images combined to reduce moiré patterns as shown in figures 4 and 5.

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

Art Unit: 2624

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jeffrey S. Smith whose telephone number is 571 270-1235. The examiner can normally be reached on M-F.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jingge Wu can be reached on 571 272-7429. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

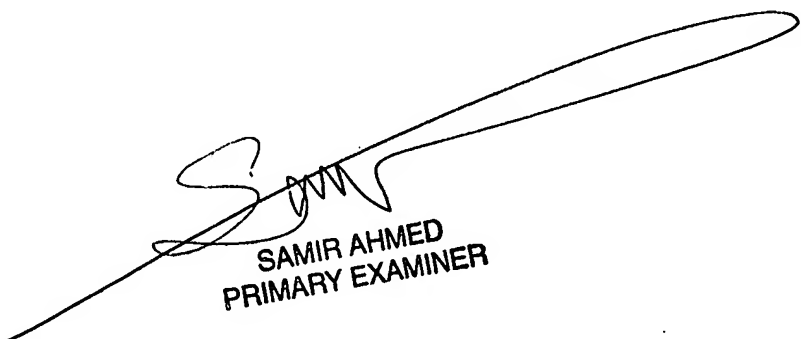
Art Unit: 2624

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

JSS

JSS

March 2, 2007



SAMIR AHMED
PRIMARY EXAMINER